

REAGENTS AND METHODS FOR ENGAGING UNIQUE CLONOTYPIC LYMPHOCYTE RECEPTORS

ABSTRACT OF THE DISCLOSURE

Platforms comprising at least one lymphocyte affecting molecule and at least one molecular complex that, when bound to an antigen, engages a unique clonotypic lymphocyte receptor can be used to induce and expand therapeutically useful numbers of specific lymphocyte populations. Antigen presenting platforms comprising a T cell affecting molecule and an antigen presenting complex can induce and expand antigen-specific T cells in the presence of relevant peptides, providing reproducible and economical methods for generating therapeutic numbers of such cells. Antibody inducing platforms comprising a B cell affecting molecule and a molecular complex that engages MHC-antigen complexes on a B cell surface can be used to induce and expand B cells that produce antibodies with particular specificities.